ENHANCE TECHNOLOGY, INC.
Where Storage Begins

E400 FR v.1.0

Enhance RAID

E400 FR

4 Bay Simple & Efficient Hardware RAID-5 Desktop Storage

W WIN M MAC L Linux

Quick start guide

www.enhance-tech.com

© Copyright. Enhance Technology, Inc. Proudly Assembled in the U.S.A.

E400 FR

Quick start guide

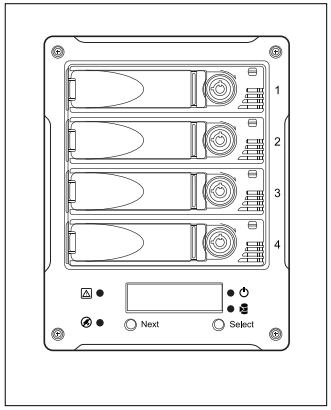
1 Welcome

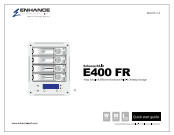
Thank you for choosing Enhance Technology

Thank you for buying Enhance Tecenology E400 Series, A 4-bay desktop RAID-5 solution for professionals who demand exceptional data protection. Featuring up to 8TB of capacity, cable-less backplane and universal connectivity, including FW400/800, eSATA and USB for PC and Mac.

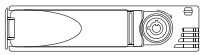
2 What is in the box?

Carefully unpack your E400 FR storage system, and inventory the accessories according to your model type.

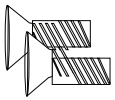




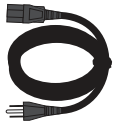
Quick Install Guide - Qty 1



Hot-swap Disk Trays - Qty 4



HDD Mounting Hardware - Qty 32



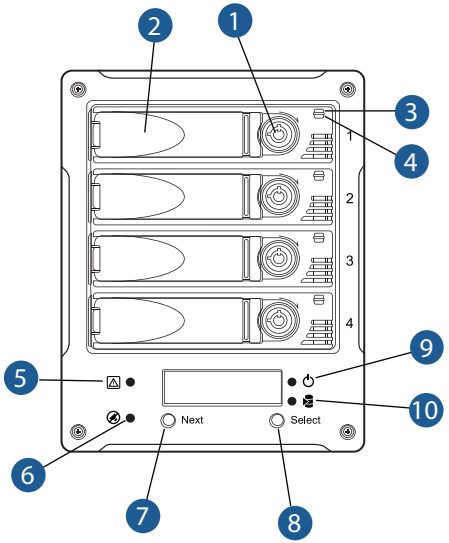
Standard IEC Power Cable - Qty 1
FireWire 800 Cable - Qty 1
eSATA Cable - Qty 1

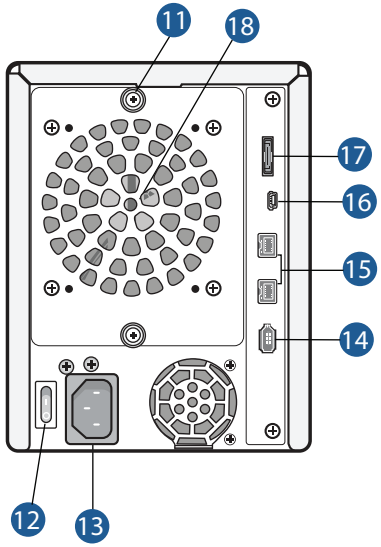
3 Unpack your E400 FR

Unpack all components including the HDD mounting screws, key sets and cables. If you are missing any of the items mentioned above, please contact your dealer or contact Enhance Technology at www.enhance-tech.com.

4 Understanding your E400 FR

Learn and identify each component of E400 FR





Front:
1. Security Key Lock
2. Hot-swap HDDs Tray
3. Power LED
4. HDD Active LED
5. Fan Error LED
6. Alarm Mute Button
7. LCM Button (Next)
8. LCM Button (Select)
9. System LED
10. RAID Active LED

Rear:
11. Thumb Screw for FAN module
12. Power Switch
13. ATX PS2 Power Supply
14. FW 400 port
15. FW 800 port
16. USB 2.0 port
17. eSATA port
18. FAN module

E400 FR

Quick start guide

5 Disk Installation

If your system was purchased with capacity, please skip this section and immediately go to next section. If your system was purchased without disks, install each disk into the provided disk trays and fasten using the supplied hdd screws. Do not use any other mounting screws other than the ones provided with your system. System or disk damage may occur if using non-approved mounting hardware.

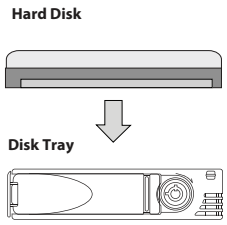


Figure 1.

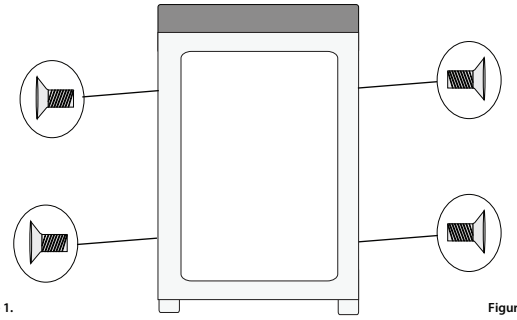
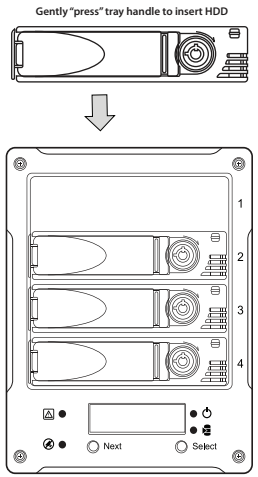


Figure 2.

6 Insert Disk Module

After fastening each disk, insert the disk trays in the open disk bay on your system. For added security your system is equipped with locking disk bays to prevent accidental or malicious disk removal.

Figure 7.



7 Connecting Your E400 FR

Your E400 FR can be connected to a Mac or Windows-based workstations through a choice of small computer interface connections such as FW400, FW800, High-speed USB2.0 and eSATA.

Figure 8.

NOTE:
Do not connect two ports at the same time. Doing so may cause your E400 FR to function incorrectly. Always select one interface port at atime.

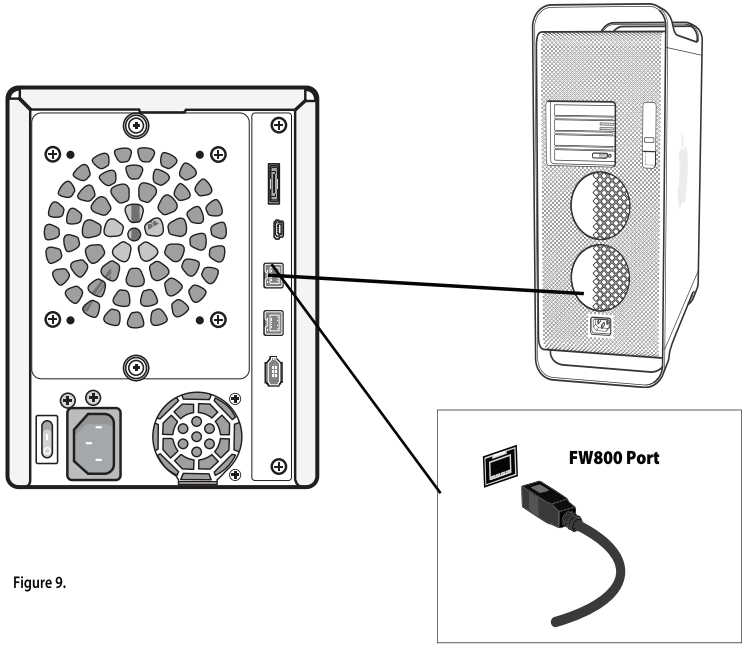


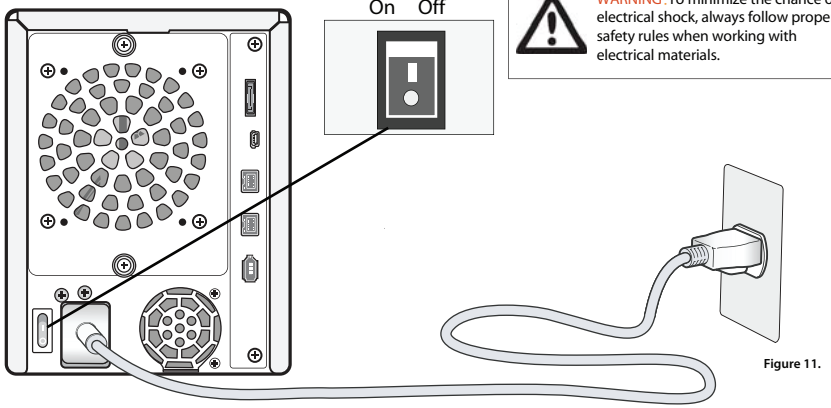
Figure 9.

E400 FR

Quick start guide

8 Power On

After connecting Data (FW400/800, USB, eSATA) cable to your system and host computer, power-on your E400 FR first, then power-on your host computer. Your array is now ready for RAID configuration in the LCM.

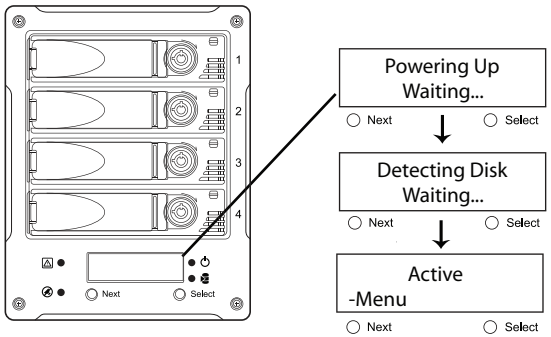


WARNING: To minimize the chance of electrical shock, always follow proper safety rules when working with electrical materials.

Figure 11.

9 Configure E400 FR

After you power on the E400 FR, the system will start RAID-5 configuration automaticlly. The LCM will have following messages show up.



10 Format Volume for Mac OS

Please refer to your computer's documentation for detailed information on formatting & preparing volumes for use.

To format the drive for Mac OS X

1. Go to the Applications folder on your system hard drive.
2. Open the Utilities folder.
3. Double click on the Disk Utility Program.
4. Find the drive in the left hand window and select the drive.
5. Click on the Partition tab.
6. Under Volume Scheme select 1 Partition
7. Type a name for the drive in the box provided.
8. Select Mac OS extended under the format options.
9. Click on Partition in the Partition dialog box
10. The drive will be formatted and mounted on the desktop.

NOTE: If you wish to use the drive on PC and Mac systems we recommend leaving the drive formatted as Mac OS Extended and installing a program such as MacDrive (www.mediafour.com) on the PC systems so that PC read and work with the Mac OS Extended format.

11 Format Volume for Windows XP/Vista

To format the drive for Windows XP

1. Click on Control Panel, Performance & Maintenance, Administrative Tools.
2. Click on the Computer Management icon.
3. Click on the Disk Management Icon.
4. Right click on the new drive's icon in the right hand window.
5. Select the Format option, click yes in warning window.
6. Type a name for the drive under volume label.
7. Select perform quick format option.
8. Click OK in format warning box.
9. The drive will be formatted and available in My Computer & Windows Explorer.

12

Troubleshooting

This section covers some common support questions.
If you are experiencing an urgent issue, please contact
your dealer or visit us online at www.enhance-tech.com

Connection Problems:

Always double check for loose cable connections or improperly seated disks if you experience problems where a disk or volume does not appear in your computer, or you recieve an error message stating a disk missing when you have the drives configured as a RAID set.

1. Disconnect the data cables and reconnect the cable, ensureing the connector is inserted securely in your E400-FR.
2. Make sure the connector is properly secured on your FireWire port.
3. Check your E400-FR's drive presence LEDs, located on the front panel of your array, if the LEDs are not lit, power down your E400-FR remove the disk and reinsert the disk module. After re-inserting the the disk, power-on your E400-FR.

If the problem persists, please contact your dealer or contact Enhance Tech Support department at 562-777-3488#2

13

Troubleshooting - Cont'd

This section covers some common support questions.
If you are experiencing an urgent issue, please contact
your dealer or visit us online at www.enhance-tech.com

Disk Capacity Problems:

Your E400-FR features a next generation Oxford FireWire chipset. This chipset offers support for hard disk capacities up to 2.0TB per disk. However, due to the OS 2TB limitation, Mac OS 10.4 and Windows XP 32-bit do not support capacity over 2.0TB.

Two (2) Year Limited Warranty

WARRANTY COVERAGE
Enhance Technology's warranty obligations are limited to the terms set forth below:

Enhance Technology, as defined below, warrants this Enhance Technology-branded hardware product against defects in materials and workmanship under normal use for a period of TWO (2) YEARS from the date of retail purchase by the original end-user purchaser ('Warranty Period"). If a hardware defect arises and a valid claim is received within the Warranty Period, at its option, Enhance Technology will either (1) repair the hardware defect at no charge, using new or refurbished replacement parts, or (2) exchange the product with a product that is new or w hich has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product. Enhance Technology may request that you replace defective parts with new or refurbished user-installable parts that Enhance Technology provides in fulfillment of its warranty obligation. A replacement product or part, including a user ¬installable part that has been installed in accordance with instructions provided by Enhance Technology, assumes the remaining warranty of the original product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes Enhance Technology's property. Parts provided by Enhance Technology in fulfillment of its warranty obligation must be used in products for which warranty service is claimed. When a refund is given, the product for which the refund is provided must be returned to Enhance Technology and becomes Enhance Technology's properly.

EXCLUSIONS AND LIMITATIONS
This Limited Warranty applies only to hardware products manufactured by or for Enhance Technology that can be identified by the "Enhance Technology" trademark, trade name, or logo affixed to them. The Limited Warranty does not apply to any non-Enhance Technology hardware products or any software, even if packaged or sold with Enhance Technology hardware. Manufacturers, suppliers, or publishers, other than Enhance Technology, may provide their own warranties to the end user purchaser, but Enhance Technology, in so far as permitted by law, provides their products "as is". Software distributed by Enhance Technology with or without the Enhance Technology brand name (including, but not limited to system software) is not covered under this Limited Warranty. Refer to the licensing agreement accompanying the software for details of your rights with respect to its use.

Enhance Technology does not warrant that the operation of the product will be uninterrupted or error-free. Enhance Tenology is not responsible for damage arising from failure to follow instructions relating to the product's use.

This warranty does not apply: (a) to damage caused by use with non-Enhance Technology products: (b) to damage caused by accident, abuse, misuse, flood, fire, earthquake or other external causes; (d to damage caused by operating the product outside the permitted or intended uses described by Enhance Technology; (d) to damage caused by service (including upgrades and expansions) performed by anyone who is not a representative of Enhance Technology or an Enhance Technology Authorized Service Provider; (e) to a product or part that has been modified to significantly alter functionality or capability without the written permission of Enhance Technology; (fl to consumable parts, such as batteries, unless damage has occurred due to a defect in materials or workmanship; opr {g} if any Enhance Technology serial number has been removed or defaced.
pp
TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, STATUTORY, EXPRESS OR IMPLIED. AS PERMITTED BY APPLICABLE LAW, ENHANCE TECHNOLOGY SPECIFICALLY DISCLAIMS ANY AND ALL STATUTORY OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY. FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS. IF ENHANCE TECHNOLOGY CANNOT LAWFULLY DISCLAIM STATUTORY OR IMPLIED WARRANTIES THEN TO THE EXTENT PERMITTED BY LAW, ALL SUCH WARRANTIES SHALL BE LIMITED IN DURATION TO THE DURATION OF THIS EXPRESS WARRANTY AND TO REPAIR OR REPLACEMENT SERVICE AS DETERMINED BY ENHANCE TECHNOLOGY IN ITS SOLE DISCRETION. No Enhance Technology reseller, agent. or employee is authorized to make any modification, extension, or addition to this warranyourty.

EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE EXTENT PERMITTED BY LAW, ENHANCE TECHNOLOGY IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOSS OF USE; LOSS OF REVENUE; LOSS OF ACTUAL OR ANTICIPATED PROFITS (INCLUDING LOSS OF PROFITS ON CONTRACTS); LOSS OF THE USE OF MONEY; LOSS OF ANTICIPAT 222222ED SAVINGS; LOSS OF BUSINESS; LOSS OF OPPORTUNITY: LOSS OF GOODWILL: LOSS OF REPUTATION; LOSS OF, DAMAGE TO OR CORRUPTION OF DATA; OR ANY INDIRECT OR CONSEQUENTIAL LOSS OR DAMAGE HOWSOEVER CAUSED INCLUDING THE REPLACEMENT OF EQUIPMENT AND PROPERTY, ANY COSTS OF RECOVERING, PROGRAMMING, OR REPRODUCING ANY PROGRAM OR DATA STORED OR USED WITH ENHANCE TECHNOLOGY PRODUCTS AND ANY FAILURE TO MAINTAIN THE CONFIDENTIALITY OF DATA STORED ON THE PRODUCT. THE FOREGOING LIMITATION SHALL NOT APPLY TO DEATH OR PERSONAL INJURY CLAIMS. ENHANCE TECHNOLOGY DISCLAIMS ANY REPRESENTATION THAT IT WILL BE ABLE TO REPAIR ANY PRODUCT UNDER THIS WARRANTY OR MAKE A PRODUCT EXCHANGE WITHOUT RISK TO OR LOSS OF THE PROGRAMS OR DATA.

CONSUMER PROTECTION LAWS
FOR CONSUMERS WHO ARE COVERED BY CONSUMER PROTECTION LAWS OR REGULATIONS IN THEIR COUNTRY OF PURCHASE OR, IF DIFFERENT, THEIR COUNTRY OF RESIDENCE. THE BENEFITS CONFERRED BY THIS WARRANTY ARE IN ADDITION TO ALL RIGHTS AND REMEDIES CONVEYED BY SUCH CONSUMER PROTECTION LAWS AND REGULATIONS. Some countries, states and provinces do not allow the exclusion or limitation of incidental or consequential damages or exclusions or limitations on the duration of implied warranties or conditions, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary by country, state or province.

This Limited Warranty is governed by and construed under the laws of the country in which the product purchase took place. Enhance Technology, the warrantor under this Limited Warranty, is identified at the end of this document according to the country or region in which the product purchase took place.

ENHANCE TECHNOLOGY, INC

© 2010 Enhance Technology, Inc. All rights reserved.

Under the copyright laws, this manual may not be copied, in whole or in part, without the written consent of Enhance Technology, Inc.

Every effort has been made to ensure that the information in this manual is accurate. Enhance Technology is not responsible for printing or clerical errors.

Enhance Technology, Inc.
12221 Florence Ave.
Santa Fe Springs, CA 90670
(562) 777-3488
www.enhance-tech.com